# BRUHATH BANGALORE MAHANAGARA PALIKE,
# DASARAHALLI ZONE

Office of the Executive Engineer Dasarahalli Division

**Schedule - B**

BBMP/2020-21/OW/WORK_INDENT43866

NAME OF WORK:Drilling of Borewell and Installation of Pump and Motors and other Accessories, PVC Pipe Line in ward no 14 Bagalagunte, T Dasarahalli Sub Division

| Sl. No | Description of work | Unit | Qty | Rates Quoted by Contractor NAGASANDRA SHAMANNA RAMARAO ( RAJALAKSHMI ROCK DRILLERS ) | |
|---|---|---|---|---|---|
| | | | | In Figures (Rs.) | In Words (Rs.) |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Geophysical survey geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the hand pumps, MWS or PWSS by vertical electrical sounding by adopting venner or schlumbergers's method including recconnaisance suevey of geological formation Geophysical investigation of existing ground Water in the vicinity. its quality , quality & acceptabality of the users indicating the location of the site recommendeddepth of casing pipe required to seal the tope unconsolidated formation including an extra depth 1.0 metre in consolidated formation for aquire proposed to be tapped propable yield and other information required including transportation of instrument and accessories to work site, engating technical personal and labour etc. | Each | 7.00 | 3876.52 | Rupees Three Thousand Eight Hundred Seventy Six and Fifty Two Paise Only |
| 2 | Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work. 0.00 to 50.00 mtrs | Rmtr | 350.00 | 356.99 | Rupees Three Hundred Fifty Six and Ninety Nine Paise Only |

Signature of the Contractor.

Executive Engineer,
Dasarahalli Division

Scanned with CamScanner

| | | | | | |
|---|---|---|---|---|---|
| 3 | Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 50mtr to 100.00 mtr | Rmtr | 350.00 | 454.73 | Rupees Four Hundred Fifty Four and Seventy Three Paise Only |
| 4 | Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 100.00 to 150.00 mtr | Rmtr | 350.00 | 469.13 | Rupees Four Hundred Sixty Nine and Thirteen Paise Only |
| 5 | Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 150.00 to 200.00 mtr | Rmtr | 350.00 | 551.44 | Rupees Five Hundred Fifty One and Forty Four Paise Only |
| 6 | 200.00 to 250.00 mtr | Rmtr | 350.00 | 652.26 | Rupees Six Hundred Fifty Two and Twenty Six Paise Only |

Signature of the Contractor,

Executive Engineer,
Dasarahalli Division,

Scanned with CamScanner

| | | | | | |
|---|---|---|---|---|---|
| 7 | Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 250.00 to 300.00 mtr | Rmtr | 350.00 | 720.26 | Rupees Seven Hundred Twenty and Twenty Six Paise Only |
| 8 | Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 300.00 to 350.00 mtr | Rmtr | 350.00 | 848.76 | Rupees Eight Hundred Forty Eight and Seventy Six Paise Only |
| 9 | Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work350.00 to 400.00 Mtr | Rmtr | 350.00 | 925.92 | Rupees Nine Hundred Twenty Five and Ninety Two Paise Only |
| 10 | Providing and Fixing 250mm dia PVC pipeetc., complete as per specifications and as per the direction of Engineer-in-charge of the work. | Mtr | 198.00 | 1176.95 | Rupees One Thousand One Hundred Seventy Six and Ninety Five Paise Only |

Signature of the Contractor,

Executive Engineer,
Dasarahalli Division

Scanned with CamScanner

| | | | | | |
|---|---|---|---|---|---|
| 11 | Supply of ISI Mark 175mm Nominal bore ,plain end steel Casing pipe- grade of steel Fee 410 of wall thickness 5.4 mm thick confirming to IS 1387/1933 and manufactured by basic open hearth electric or basic oxygen process in random lenth of 5 to 7mtrs. Both ends threaded Confirming to IS 554/1985, One end fixed with a Socket Confirming to IS 4270:2001 and the other end with Screwed pipes . All pipes shall be reasonably free from defectes. The tube shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr.complete as per specifications and as per the direction of Engineer-in-charge of the work..complete as per specifications and as per the direction of Engineer-in-charge of the work. | Rmtr | 550.00 | 1363.16 | Rupees One Thousand Three Hundred Sixty Three and Sixteen Paise Only |
| 12 | Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 154.32 | Rupees One Hundred Fifty Four and Thirty Two Paise Only |
| 13 | Providing and laying at site of work MS casing caps as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 102.88 | Rupees One Hundred Two and Eighty Eight Paise Only |
| 14 | Supplying and delivery of Submersible Pump Sets of 150mm dia suitable for bore well and confirming to IS 8034 specifications and its latest ammendments, 3-Phase, SS Bowl and impeller with low volt motor with testing as per instructions of Engineer incharge of work.complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 69674.45 | Rupees Sixty Nine Thousand Six Hundred Seventy Four and Forty Five Paise Only |

Signature of the Contractor

Executive Engineer

Scanned with CamScanner

| | | | | | |
|---|---|---|---|---|---|
| 15 | Supplying, laying, jointing testing and commissioning of GI pipes confirming to IS 1239:1990 with latest amendments, including fising collars, Elbows, Tees, bends, Glad Cocks and other Fittings (Excluding Cost of Specials) with Cuts and Threads wherever necessary including conveying the materials to workspot, including testing for water tightness with all lead and lifts etc complete (Contractor shall make his own arrangements for procuring water for testing) Class-C -Heavy 50mm Dia complete as per specifications and as per the direction of Engineer-in-charge of the work. | Rmtr | 2100.00 | 476.33 | Rupees Four Hundred Seventy Six and Thirty Three Paise Only |
| 16 | Suppy and fixing 50mm dia GI collar Heavy duty etc., complete as per specifications and as per the direction of Engineer-in-charge of the work. | Nos | 350.00 | 185.13 | Rupees One Hundred Eighty Five and Thirteen Paise Only |
| 17 | Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.3C X 6.0Sq.mm complete as per specifications and as per the direction of Engineer-in-charge of the work. | Rmtr | 4340.00 | 210.90 | Rupees Two Hundred Ten and Ninety Paise Only |
| 18 | Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 With ISI Mark and as per its latest amendments 50mm Dia complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 1208.84 | Rupees One Thousand Two Hundred Eight and Eighty Four Paise Only |

Signature of the Contractor,

Executive Engineer,
Dasarahalli Division,

Scanned with CamScanner

| | | | | | |
|---|---|---|---|---|---|
| 19 | Supplying and delivery at site brand new star/Essen/Lotus/Sun-Shines/Adarsh/ G.K.Controls Best Indigenous make combined energy meter-cum-control panel board unit minimum mechanically strong suitable for operation on 3HP 50HZ 380/440 Volts AC supply with spring loaded latch locking Device with a key Ribbs should be provided. contron panal board unit suitable for operation on 3HP 50HZ 380/440 Volts AC shall be consists Etc. complete the panal board shall be fabricated in single unit in the above components panal board suitable pump set 10HP to 20HP with stac delta starter out door panel board up to 20HP, complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 21604.80 | Rupees Twenty One Thousand Six Hundred Four and Eighty Paise Only |
| 20 | Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.complete as per specifications and as per the direction of Engineer-in-charge of the work. | Job | 7.00 | 5812.72 | Rupees Five Thousand Eight Hundred Twelve and Seventy Two Paise Only |
| 21 | Labour charges for erection of outdoor type panel board and meter board units with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work. complete as per specifications and as per the direction of Engineer-in-charge of the work. | Job | 7.00 | 1232.50 | Rupees One Thousand Two Hundred Thirty Two and Fifty Paise Only |
| 22 | Supplying of TPST with rewirable porcelain channels in SM enclosure 32 amps complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 1851.84 | Rupees One Thousand Eight Hundred Fifty One and Eighty Four Paise Only |

Signature of the Contractor,

Executive Engineer,
Dasarahalli Division.

Scanned with CamScanner

| | | | | | |
|---|---|---|---|---|---|
| 23 | Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs crews.20"x20"x2.5"complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 300.41 | Rupees Three Hundred and Forty One Paise Only |
| 24 | Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 230/440v A.C. 50 Hz 12/24v D.Ccomplete as per specification, with testing of as per instructions complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 442.38 | Rupees Four Hundred Forty Two and Thirty Eight Paise Only |
| 25 | Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834, 3 phase, 400/440 volts grade, for power factor improvement of rotating machineries like induction motor. 2KVAR complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 411.52 | Rupees Four Hundred Eleven and Fifty Two Paise Only |
| 26 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6 to 32amps complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 1764.39 | Rupees One Thousand Seven Hundred Sixty Four and Thirty Nine Paise Only |
| 27 | Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 7.00 | 3086.09 | Rupees Three Thousand Eighty Six and Nine Paise Only |

Signature of the Contractor,

Executive Engineer,
Dasarahalli Division

Scanned with CamScanner

| | | | | | |
|---|---|---|---|---|---|
| 28 | Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm dia complete as per specifications and as per the direction of Engineer-in-charge of the work. | Rmt | 28.00 | 344.65 | Rupees Three Hundred Forty Four and Sixty Five Paise Only |
| 29 | Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS 1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 complete as per specifications and as per the direction of Engineer-in-charge of the work. | No | 315.00 | 154.32 | Rupees One Hundred Fifty Four and Thirty Two Paise Only |
| 30 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) cutting road surface in hard soil complete as per specifications and as per the direction of Engineer-in-charge of the work. | Cum | 280.00 | 104.94 | Rupees One Hundred Four and Ninety Four Paise Only |
| 31 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.6 sqmm to 16 sqmm complete as per specifications and as per the direction of Engineer-in-charge of the work | Rmt | 315.00 | 12.22 | Rupees Twelve and Twenty Two Paise Only |
| 32 | Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc complete as per specifications and as per the direction of Engineer-in-charge of the work | Each | 21.00 | 277.78 | Rupees Two Hundred Seventy Seven and Seventy Eight Paise Only |
| 33 | Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers complete as per specifications and as per the direction of Engineer-in-charge of the work | Each | 21.00 | 179.01 | Rupees One Hundred Seventy Nine and One Paise Only |
| 34 | Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classification.(RDWS SR 2019-20Pg No.08 I.No.2.26)Cutting Asphalt Road Surface complete as per specifications and as per the direction of Engineer-in-charge of the work | Cum | 37.80 | 557.61 | Rupees Five Hundred Fifty Seven and Sixty One Paise Only |

Signature of the Contractor

Executive Engineer,
Basarahalli Division,

Scanned with CamScanner

| | | | | | |
|---|---|---|---|---|---|
| 35 | Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classification.Cutting in cement concrete road Surface complete as per specifications and as per the direction of Engineer-in-charge of the work | Cum | 7.88 | 1137.85 | Rupees One Thousand One Hundred Thirty Seven and Eighty Five Paise Only |
| 36 | KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification complete as per specifications and as per the direction of Engineer-in-charge of the work | Cum | 7.88 | 5248.94 | Rupees Five Thousand Two Hundred Forty Eight and Ninety Four Paise Only |
| 37 | Earthwork excavation for pipeline trenches including depositing on bank upto a lead of 50 mtrs and depth up to 2.00 mtrs. Including shoring and strutting, danger lighting and using sight rails and boning rods at every 100 mtrs. Wherever necessary as directed in the following strata. (Manual Means) in ordinary soil complete as per specifications and as per the direction of Engineer-in-charge of the work | Cum | 708.75 | 269.55 | Rupees Two Hundred Sixty Nine and Fifty Five Paise Only |
| 38 | Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete as per specifications and as per the direction of Engineer-in-charge of the work | Rmt | 3150.00 | 159.46 | Rupees One Hundred Fifty Nine and Forty Six Paise Only |

Signature of the Contractor,

Executive Engineer
Dasarahalli Division

Scanned with CamScanner

| | | | | | |
|---|---|---|---|---|---|
| 39 | Refilling the basement and pipeline trenches with selected available earth from trench excavation including watering, Consolidation in layers of 15 cm thick including disposing of the surplus earth with all lead & lifts. (Compacting with vibro roller) complete as per specifications and as per the direction of Engineer-in-charge of the work | Cum | 708.75 | 105.97 | Rupees One Hundred Five and Ninety Seven Paise Only |
| 40 | Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments a) 50mm dia complete as per specifications and as per the direction of Engineer-in-charge of the work | Each | 20.00 | 1224.27 | Rupees One Thousand Two Hundred Twenty Four and Twenty Seven Paise Only |

Signature of the Contractor

Executive Engineer,
Dasarahalli Division,

Signature of the Contractor,

Executive Engineer,
Dasarahalli Division,

Scanned with CamScanner